

Day-11
11/04/2020

(28)

student-component.html

```
<p> student works </p>
<h1> Student Component </h1>
<div>
  <ol>
    <li> Vinat </li>
    <li> Sachin </li>
    <li> Dhoni </li>
    <li> Rohit </li>
    <li> Gautham </li>
    <li> Yuviz </li>
  </ol>
</div>
```

Output:-

Routing Example

student student-detail

student works !

Student Component

1. Vinat
2. Sachin
3. Dhoni
4. Rohit
5. Gautham
6. Yuviz

student-detail-component.html

```
<p> Student-Details </p>
<div>
  <p> Vinat </p>
  <p> Cricket </p>
  <p> Batsman </p>
</div>
<div>
  <p> Sachin <br> Cricket <br>
    AllRounder </p>
</div>
<div>
  <p> Dhoni <br> Cricket <br>
    Batsman, Keeper </p>
</div>
```

Output:-

Routing Example.

student student-detail/s

student-detail works !

Vinat
Cricket
Batsman

Sachin
Cricketer
All Rounder

Dhoni
Cricketer
Batsman, Keeper

student-detail-component.css

```
div {
  border: solid;
  margin-bottom: 10px;
}
```

- * localhost: 4200 displays the root component (app-component)
- * In the URL localhost: 4200/student will display the student component data in the browser.
- * localhost: 4200/student-details will display the student detail component on the browser
- * Whenever we write localhost: 4200 in the URL the second half page on the browser will be empty.

Angular Routing

- * An angular router is an official routing library, written and maintained by the Angular Core Team.
- * It activates all the required Angular Component to compare a page when a user navigates to certain URL
- * It lets users navigate from one page to another page without page reload.
- * Whenever the user clicks on link it will go into routes array and it will search the path
- * Angular provides easy way to create and work with components in its SPA.

Router Outlet

- * Router Outlet is dynamic component that the router uses to display views based on router navigation.
- * Router outlet is a routing component
`<router-outlet> - </router-outlet>`
- * The router-outlet is the selector for the RouterLink directive that turns user click into the user navigation
- * You can assign a string to the RouterLink
- * This directive generates our link based on the route path.

Redirecting Routes

(29)

- * A redirect route that translates the initial relative URL to the desired default path.
- * When application starts, it navigates to the empty route to by default. We can ~~chang~~ configure the router to redirect to a named route by default.
- * A router has no routes until you configure it.
- *

```
export const routes: Routes = [  
  { path: '', redirectTo: 'component-one', pathMatch: 'full' },  
  { path: 'student', component: StudentComponent },  
  { path: 'employee', component: EmployeeComponent },  
];
```

Rules

- * Empty path in the first route represents the default path for the application.
- * A redirect route requires a pathMatch property to tell the router how to match a URL.
- * We all need pathMatch: 'full' property so Angular knows it should be matching exactly the empty string.

app-routing.module.ts

```

import { NgModule } from '@angular/core';
import { Router, Routes } from '@angular/router';
import { StudentComponent } from './student/student.component';
import { StudentDetailsComponent } from './student-detail/student-detail.component';

const routes: Routes = [
  { path: '', redirectTo: 'student', pathMatch: 'full' },
  { path: 'student', component: StudentComponent },
  { path: 'student-detail', component: StudentDetailsComponent },
];

```

@NgModule

```

imports: [RouterModule.forRoot()],
exports: [RouterModule]
}
export class AppRoutingModule {}

```

app.component.html

```

<h1> Routing Example </h1>
<div>
  <a [routerLink]="['/student']"> student </a>
  <a [routerLink]="['/student-detail']"> student detail </a>
</div>

```

Output

localhost: 4200/student

Routing Example



student works!

student component

1. Vinat
2. Sachin
3. Dhoni

Output

localhost: 4200

Routing Example

student student-detail

student works!

student component

1. Vinat
2. Sachin
3. Dhoni

Wildcard Route:-

(30)

- * Wildcard route to intercept invalid URL's and handle them gracefully
 - * A wildcard route has a path consisting of two asterisks `{**}`
 - * It matches every URL, the route will select this route if it can't match a route earlier in the configuration. A wildcard route can navigate an existing route to a custom "404 not found" component or redirected to an existing route.
- ```
{
 path: '**', component: PageNotFoundComponent
}
```
- \* If the entire router configuration is processed and there is no match, router navigation will reach default.

## Rules:-

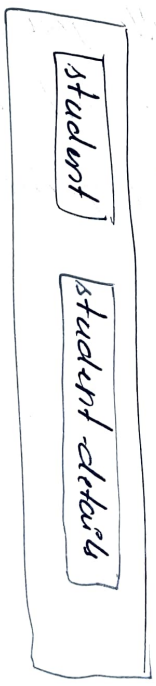
- \* If you add a wildcard route as the first route, no other would be reached and the wildcard route would always be matched.
- \* As a result, you should always add a wildcard route as the last route in your router configuration.
- \* Create a page not found Component using terminal

# app-routing.module.ts

Output:-

localhost: 4200/login login ← not present in the component

Routing Example



```
import { NgModule } from '@angular/core';
import { Routes, RouterModule } from '@angular/router';
import { studentComponent } from './student/student.component';
import { studentDetailComponent } from './student-detail/student-detail.component';
import { PageNotFoundComponent } from './page-not-found/page-not-found.component';

const routes: Routes = [
 { path: 'student', component: studentComponent },
 { path: '', redirectTo: 'student', pathMatch: 'full' },
 { path: 'studentDetail', component: studentDetailComponent },
 { path: '**', component: PageNotFoundComponent }
];
```

```
@NgModule({
 imports: [RouterModule.forRoot(routes)],
 exports: [RouterModule]
})
```

```
export class AppRoutingModule {}
```

Page Not Found  
The page you are searching is not available.

Note: If the page not found component is placed at the beginning then it will always show the error on the browser. So we have to place it at the end.